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	Application No.	Applicant(s)	
Notice of Allowshiller	10/796,559	BAKER, CLARK R.	
Notice of Allowability	Examiner	Art Unit	
	Etsub D. Berhanu	3768	
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication IGHTS. This application is subject to	olication. If not included will be mailed in due cour	rse. <b>THIS</b>
1. This communication is responsive to <u>22 August 2006</u> .			
2. X The allowed claim(s) is/are <u>1-25, 27 and 28</u> .			
3. Acknowledgment is made of a claim for foreign priority una) All b) Some* c) None of the:  1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)).  * Certified copies not received:  Applicant has THREE MONTHS FROM THE "MAILING DATE" on the delow. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	e been received.  be been received in Application No cuments have been received in this r  of this communication to file a reply of this of this application.	national stage application to	ements
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.			
5. CORRECTED DRAWINGS (as "replacement sheets") mus	t be submitted.		
<ul><li>(a) ☐ including changes required by the Notice of Draftspers</li></ul>		948) attached	
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date			
<ul><li>(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date</li></ul>	Amendment / Comment or in the Of	ffice action of	
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the	.84(c)) should be written on the drawing the header according to 37 CFR 1.121(d	gs in the front (not the back).	k) of
<ol> <li>DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT I</li> </ol>	sit of BIOLOGICAL MATERIAL m FOR THE DEPOSIT OF BIOLOGICA	iust be submitted. Note L MATERIAL.	the
Attachment(s)  1. Notice of References Cited (PTO-892)  2. Notice of Draftperson's Patent Drawing Review (PTO-948)  3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	5. Notice of Informal Pa 6. Interview Summary ( Paper No./Mail Date 7. Examiner's Amendm 8. Examiner's Statemer 9. Other	(PTO-413), e : nent/Comment	ce

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**EXAMINER'S AMENDMENT** 

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1. An examiner's amendment to the record appears below. Should the changes and/or additions be

unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure

consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with David M.

Hoffman on 23 October 2006, wherein an amendment to claim 9 was discussed in order to provide proper

antecedent basis.

The application has been amended as follows:

Claim 9 has been amended to read:

9. The method of claim 1 wherein said <u>calculating</u> [selecting] weights comprises forming a

combination of one or more parameters selected from the group consisting of a measure of the

degree of arrhythmia of said signals, a measure of the degree of similarity or correlation between

said first and second electromagnetic radiation signals, a measure of the degree of motion artifact

by obtaining a ratio of a current pulse amplitude to the long-term average pulse amplitude of said

signals, a ratio of a current pulse amplitude to the previous pulse amplitude of said signal, and a

ratio of a current pulse period to that of an average pulse period of said signals.

Claim 10 has been amended to read:

10. A device for ensemble averaging signals in a pulse oximeter, comprising:

means for receiving first and second electromagnetic radiation signals from a blood

perfused tissue portion corresponding to two different wavelengths of light;

means for obtaining an assessment of the signal quality of said electromagnetic signals;

means for <u>calculating</u> [selecting] weights for an ensemble averager from a continuous weighting function using said assessment of signal quality; and

an ensemble averager for ensemble averaging said electromagnetic signals using said weights.

Claim 26 has been canceled.

2. The following is an examiner's statement of reasons for allowance: None of the prior art teaches or suggests, either alone or in combination, a method or device wherein weights are calculated for an ensemble averager from a continuous weighting function using an assessment of signal quality from two electromagnetic signals, in combination with the other claimed steps or elements.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Etsub D. Berhanu whose telephone number is 571.272.6563. The examiner can normally be reached on Monday - Friday (Every other Friday off).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brian Casler can be reached on (571)272-4956. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application

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Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR

CANADA) or 571-272-1000.

EDB